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(71)(72) Applicants and Inventors: BEATTIE, Kenneth, Loren [US/US]; 234 Open Range Road, Crossville, TN 38555 (US). MALDONADO RODRIGUEZ, Rogelio [MX/MX]; Cerrada Merced de las Huertas #28, Mexico City, D.F. 11420 (MX).

(74) Agent: ADLER, Benjamin, A.; McGregor & Adler, 8011 Candle Lane, Houston, TX 77071 (US).

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(54) Title: NUCLEIC ACID ANALYSIS USING SEQUENCE-TARGETED TANDEM HYBRIDIZATION

(57) Abstract

The disclosed invention provides a novel method for analyzing genomic DNA and expressed sequences using auxiliary oligonucleotides, preannealed to the single-stranded target nucleic acid to form a partially duplex target molecule, offers several advantages in the analysis of nucleic acid sequences by hybridization to genosensor arrays or "DNA chips". Also provided is a method for directly analyzing and comparing patterns of gene expression at the level of transcription in different cellular samples.